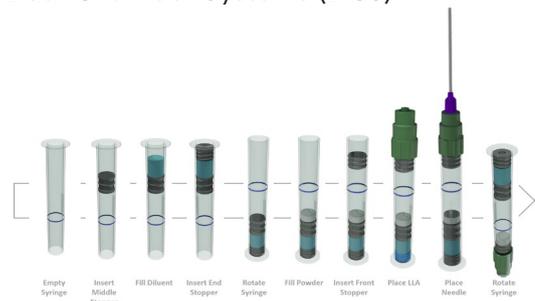


Primary Packaging Filling Lines



Dec provides liquid & powder filling solutions for the pharmaceutical aseptic/sterile Fill-Finish process. From standard to custom-tailored equipment solutions Dec's engineered microdosing and containment system technologies are designed to meet your particular needs for sterile primary packaging. Dec's filling solutions are cGMP compliant, perfectly adapted to the process requirements and accurately designed to comply with the most recent revisions of the „Annex 1 Manufacture of Sterile Medicinal Products guidelines.“

All Dec filling equipment is configured for a seamless integration into your production lines and designed to accommodate various speeds and containers, including RTU / RTF (ready to use or fill) bottles, vials, cartridges, syringes, pre-sterile nested trays and Dual Chamber Systems (DCS).



Microdosing Technologies for Powder:

- μ PTS
- flexPTS
- sPTS
- Auger system

Filling Methods for Liquids:

- BoMa technology
- Net weight filling
- Peristaltic pump
- Rotary piston pump



Primary Packaging Filling & Containment Units



Liquid filling

For highly accurate and controlled filling and weighing, the proven and reliable technology prevents costly overfilling. The machines are compatible with all high-tech production facility equipment, software and processes known in the pharmaceutical primary packaging industry. Dec's fit-for-purpose liquid filling solutions incorporate several filling process principles and options; net weight filling, peristaltic pump filling, rotary piston pump filling and the new patent pending Boma technology. The liquid filling range comprises modular equipment, depending on the container and the required output.

Powder filling

Our powder filling solutions are highly accurate and prevent costly overfilling through proven and reliable technology. The machines are compatible with all high-tech production facility equipment, software and processes known in the pharmaceutical primary packaging industry. Dec's fit-for-purpose powder filling solutions incorporate several filling process principles and options, including PTS based micro-dosing units, net weight and auger filling. The powder filling range comprises modular equipment, depending on the container and the required output.

Containment

In line with ISO 14644, the counting of particles of size $< 5 \mu\text{m}$ is not required for the classification of the aseptic areas. But this same counting is obligatory during the environmental monitoring of non-viable particles. Dec's containment solutions are GMP compliant, dependable and accurately designed and configured for a seamless integration into your production lines. They are designed to accommodate various cleanroom settings, ergonomic handling and up- and downstream production processes.

Handling

A pharmaceutical production process should run smoothly and with as little human interventions as possible. This is where we come in: Dec develops intelligent pharma packaging solutions for seamless integration into new and existing pharma packaging lines to optimize the downstream of products. The handling range designed for full product & operator protection complements the product range to deliver comprehensive, integrated project solutions.